


REMARKS

It is respectfully requested that the Examiner enter these amendments prior to examining the application on its merits.

Attached hereto is a marked-up version of the changes made and claims by the current amendment and a substitute specification is attached in clean form as well as a marked up version. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

Respectfully submitted,

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Date: 25 September 2001

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

1. (Amended) A process of oxidation dyeing which comprises
[Use of]

using N-acetylcysteine as a reducing agent and [of] a
laccase as an oxidizing agent [in oxidation dyeing] in the
presence of at least one oxidation dye precursor.

2. (Amended) A process [Process] for dyeing keratin
fibres[, and in particular human keratin fibres such as the
hair, characterized in that it consists] which comprises:

[- in] applying to the fibres a dye composition (A)
[containing, in a medium which is suitable for dyeing,]
comprising at least one oxidation dye precursor [and,
optionally, one or more couplers] and[,] N-acetylcysteine as a
reducing agent[, N-acetylcysteine, and] in a medium which is
suitable for dyeing; and

[- in] developing the color [colour] in the presence of air
in an alkaline, neutral or acidic medium using at least one
laccase incorporated into the composition (A) or into a
composition (B), the compositions (A) and (B) being mixed
together immediately before use or applied one after the other
to the keratin fibres.

3. (Amended) The process [Process] according to Claim 2, [in which] wherein the composition (A) [contains from] comprises N-acetylcysteine in an amount of 0.005% to 2% by weight relative to the total weight of the composition (A) [of N-acetylcysteine].

4. (Amended) The process [Process] according to Claim 3, [in which] wherein the composition (A) [contains from] comprises N-acetylcysteine in an amount of 0.01% to 0.25% by weight [of N-acetylcysteine] relative to the total weight of the composition (A).

5. (Amended) The process [Process] according to [any one of Claims 2 to 4] Claim 2, [in which] wherein the laccase is [chosen from laccases of plant origin, or animal origin, of fungal origin and of bacterial origin, or obtained by biotechnology] selected from the group consisting of plant laccases, animal laccases, fungal laccases, bacterial laccases, and recombinant laccases.

6. (Amended) The process [Process] according to [any one of Claims 2 to 5] Claim 2, [in which] wherein the laccase is [chosen from those] produced by plants which carry out chlorophyll synthesis.

7. (Amended) The process [Process] according to Claim 6, [in which] wherein the laccase is [chosen from those] extracted from an Anacardiacea [plants] plant; [or] from a Podocarpacea [plants,] plant; from Rosmarinus off.; from Solanum tuberosum; from Iris sp.; from Coffea sp.; from Daucus carota; from Vinca minor; from Persea americana; from Catharethus roseus; from Musa sp.; from Malus pumila; from Ginkgo biloba; from Monotropa hypopithys (Indian pipe)[,]; from Aesculus sp.; from Acer pseudoplatanus; from Prunus persica; and from Pistacia palaestina.

8. (Amended) The process [Process] according to Claim 5, [in which] wherein the laccase is [chosen from those] obtained from Pyricularia orizae, [from] Polyporus versicolor, [from] Rhizoctonia praticola, [from] Rhus vernicifera, [from] Scytalidium, [from] Polyporus pinsitus, [from] Myceliophthora thermophila, [from] Rhizoctonia solani, [from] Trametes versicolor, [from] Fomes fomentarius, [from] Chaetomium thermophile, [from] Neurospora crassa, [from] Coriolus versicol, [from] Botrytis cinerea, [from] Rigidoporus lignosus, [from] Phellinus noxius, [from] Pleurotus ostreatus, [from] Aspergillus nidulans, [from] Podospora anserine, [from] Agaricus bisporus, [from] Ganoderma lucidum, [from] Glomerella cingulata, [from]

Lactarius piperatus, [from] Russula delica, [from]
 Heterobasidion annosum, [from] Thelephora terrestris, [from]
 Cladosporium cladosporioides, [from] Cerrena unicolor, [from]
 Coriolus hirsutus, [from] Ceriporiopsis subvermisporea, [from]
 Coprinus cinereus, [from] Paneolus papilionaceus, [from]
 Panaeolus sphinctrinus, [from] Schizophyllum commune, [from]
 Dichomitius squalens, or [and from] variants thereof.

9. (Amended) The process [Process] according to [any one of
 Claims 2 to 8] Claim 2, [in which] wherein the laccase is
 present in amounts ranging from 0.5 to [3 000] 3,000 [lacu, or
 from 1 000 to 6×10^7 u units; or from 20 to 3×10^6 ulac]
 units[,] per 100 g of [ready-to-use composition] the composition
applied to the keratin fibres.

10. (Amended) The process [Process] according to [any one
 of Claims 2 to 9] Claim 2, [in which] wherein the oxidation dye
 precursors of the composition (A) are [chosen from] selected
from the group consisting of: ortho- and para-
 phenylenediamines[,]i bis(phenyl)alkylenediamines[,]i ortho- and
 para-aminophenols[,]i [and] heterocyclic bases[,]i and [also]
 addition salts [of these compounds] thereof with an acid.

11. (Amended) The process [Process] according to Claim 10, [in which] wherein the oxidation dye precursors are present in a proportion of [from] 0.0005% to 12% by weight relative to the total weight of the composition (A).

12. (Amended) The process [Process] according to [any one of Claims] Claim 2 [to 11], [in which] wherein the couplers of the composition (A) are [chosen from] selected from the group consisting of meta-phenylenediamines, meta-aminophenols, meta-diphenols and heterocyclic couplers, and the addition salts [of these compounds] thereof with an acid.

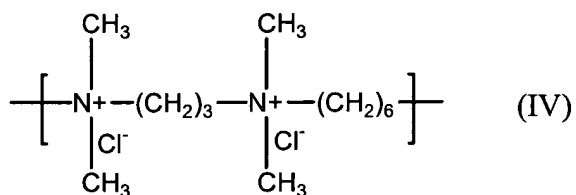
13. (Amended) The process [Process] according to Claim 12, [in which] wherein the couplers are present in a proportion of [from] 0.0001% to 10% by weight relative to the total weight of the composition (A).

14. (Amended) The process [Process] according to [Claims 10 and 12] Claim 10, [in which] wherein the addition salts [of the oxidation dye precursors and of the couplers with an acid] are [chosen from] selected from the group consisting of hydrochlorides, hydrobromides, sulphates, tartrates, lactates, and acetates.

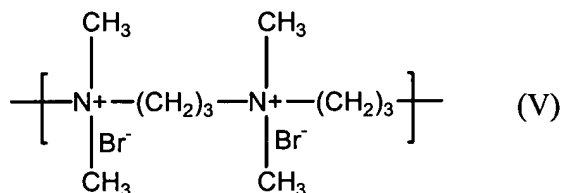
15. (Amended) The process [Process] according to [any one of Claims 2 to 14] Claim 2, [in which] wherein the composition (A), [and/or] the composition (B), or a mixture thereof further comprises [also contains] direct dyes.

16. (Amended) The process [Process] according to [any one of Claims 2 to 15] Claim 2, [in which] wherein the composition (A), [and/or] the composition (B), or a mixture thereof further comprises [also contains] at least one cationic or amphoteric substantive polymer.

17. (Amended) The process [Process] according to Claim 16, [in which] wherein the substantive polymer is a poly(quaternary ammonium) polymer consisting of repeating units corresponding to formula (IV) below:



18. (Amended) The process [Process] according to Claim 16, [in which] wherein the substantive polymer is a poly([quaternay]quaternary ammonium) polymer consisting of repeating units corresponding to formula (V) below:



19. (Amended) The process [Process] according to [any one of Claims 2 to 18] Claim 2, [in which] wherein the composition (A) [also contains] further comprises one or more adjuvants [chosen from] selected from the group consisting of sequestering agents, hair conditioners, [in particular] silicones, preserving agents, opacifiers, [and] anionic, nonionic or amphoteric surfactants, [or] and mixtures thereof.

20. (Amended) The process [Process] according to [any one of Claims 2 to 19] Claim 2, [in which] wherein the pH value of the [ready-to-use] composition applied to the keratin fibres is between 3 and 11[, preferably between 4 and 9 and even more preferably between 6 and 8].

21. (Amended) [Composition (A) as defined in any one of Claims 2 to 20] A composition comprising at least one oxidation dye precursor and N-acetylcysteine in a medium suitable for dyeing a keratin fibre.

22. (Amended) [Ready-to-use composition which may be obtained by mixing together the compositions (A) and (B) as defined in any one of Claims 2 to 20] A composition comprising a mixture of a composition (A) including at least one oxidation dye precursor and N-acetylcysteine in a medium suitable for dyeing a keratin fibre and a composition (B) including at least one laccase in an alkaline, neutral or acidic medium, wherein said composition is ready-to-use to dye a keratin fibre.

23. (Amended) A process [Process] for dyeing keratin fibres[, and in particular human keratin fibres such as the hair, characterized in that] which comprises applying to the keratin fibres at least one [dye] composition [(A) with laccase] according to Claim 21 containing at least one laccase, [or a ready-to-use dye composition according to Claim 22 is applied to the fibres] for a period which is sufficient to develop the desired coloration.

24. (Amended) [Process, characterized in that it comprises a preliminary step which consists in separately storing, on the one hand, the composition (A) according to Claim 21 and, on the other hand, the composition (B) according to any one of claims 2 to 20, and then in mixing them together at the time of use, after which this mixture is applied to the keratin fibres] A

process for dyeing keratin fibres, wherein a composition according to Claim 21 is mixed with a composition including at least one laccase in an alkaline, neutral or acidic medium prior to applying to the keratin fibres.

25. (Amended) The process [Process] according to Claim [23] 22, [in which] wherein the [application of the ready-to-use dye] composition ~~[is carried out]~~ is applied at a temperature of between 20°C and 60°C [and preferably between 35°C and 50°C].

26. (Amended) A multi-compartment [Multi-compartment] device, [or "kit",] for dyeing keratin fibres[, and in particular human keratin fibres such as the hair, characterized in that it comprises] comprising [at least two compartments,] one [of which contains] compartment containing a composition (A) [containing] including at least one oxidation dye precursor [and optionally one or more couplers] and[, as a reducing agent,] N-acetylcysteine, and [another] a second compartment [contains] containing an oxidizing composition (B) [containing] including at least one laccase.